

Product Information

Biotin PEG reagent, Biotin-PEG3-(CH₂)₃-NH₂, TFA salt, Purity 98%

Cat. No.: X24-03-YW0120

Size: 100 mg; 250 mg; 500 mg; 1 g

CAS Number: 1374658-86-2

PubChem CID: 12068534

Synonym: 1374658-86-2; *N*

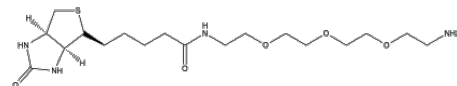
-(3-(2-(2-(3-Aminopropoxy)etho

xy)ethoxy)propyl)-5-((3a*S*,4*S*,6a*R*)-2-oxohexahydro-1*H*

-thieno[3,4-*d*]imidazol-4-yl)pentanamide; 1Biotin-PEG3-(CH₂)₃-NH₂ TFA salt; *N*

-(13-Amino-4,7,10-trioxatridecanyl)biotinamide

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Biotin-PEG3-(CH ₂) ₃ -NH ₂ , TFA salt is a biotinylation reagent suitable for conjugation with carboxyl-containing molecules or 5'phosphate groups, forming stable amide bonds. It is of reagent grade quality and intended for research purposes.
Molecular Weight	446.6
Molecular Formula	C ₂₀ H ₃₈ N ₄ O ₅ S
Functional Group 1	Biotin
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Carboxyl
Reactive Group 2	5'Phosphate
IUPAC Name	5-[(3a <i>S</i> ,4 <i>S</i> ,6a <i>R</i>)-2-oxo-1,3,3a,4,6,6a-Hexahydrothieno[3,4- <i>d</i>]imidazol-4-yl]- <i>N</i> -[3-[2-[2-(3-aminopropoxy)ethoxy]ethoxy]propyl]pentanamide
InChI	InChI=1S/C20H38N4O5S/c21-7-3-9-27-11-13-29-14-12-28-10-4-8-22-18(25)6-2-1-5-17-19-16(15-30-17)23-20(26)24-19/h16-17,19H,1-15,21H2,(H,22,25)(H2,23,24,26)/t16-,17-,19-/m0/s1
InChI Key	XNGTVIOREZIKAE-LNLFQRSKSA-N
Canonical SMILES	C1C2C(C(S1)CCCC(=O)NCCCOCOCOCOCOCN)NC(=O)N2
Isomeric SMILES	C1[C@H]2[C@@H]([C@@H](S1)CCCC(=O)NCCCOCOCOCOCOCN)NC(=O)N2
Form	Waxy solid

Purity	98%
Identity	Confirmed by NMR.
Applications	Biotin-PEG3-(CH ₂) ₃ -NH ₂ , TFA salt is widely used in bioconjugation experiments, protein labeling, and biomolecule immobilization. Its amino group enables efficient coupling reactions with carboxyl groups or 5'phosphate groups, making it valuable in various biochemical and biotechnological applications.
Storage	Store at -20°C